

Proximity Switches Series CSN

Reed switch



- » Integrated clamp for direct mounting onto tie-rods, Series 60 ISO w/ 32mm - 100mm bore
- » Integrated DIN 43650-B connection w/ LED

It is designed so that it can be fixed directly on the tie-rod by means of two screws which assure the position longitudinal to the cylinder axle; and with a third screw for the anti-rotation positioning. The three terminals are indicated by the numbers 1, 2 and 3 and enable the following connections to be made (see the scheme).

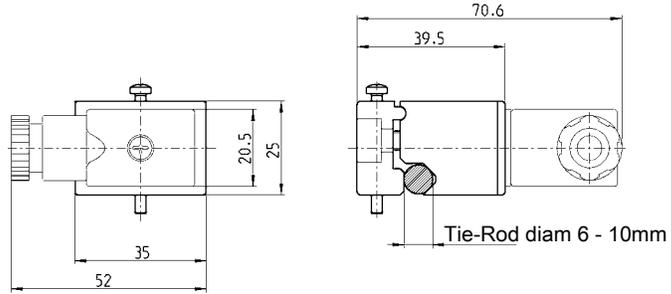
The electrical proximity switch mod. CSN 2032-0 consists of a Reed switch complete with an electronic protection circuit and a red LED indicator all encapsulated in an insulated sealed casing.

GENERAL DATA

Mod.	CSN 2032- 0
Voltage	from 12 to 220V AC and DC
Protection	IP54 / IP65 with connector DIN 43650
Material	glass-reinforced PA
Mounting	bracket for tie rod \varnothing 6 – \varnothing 10
Signalling	integrated red LED
Electrical connection	DIN 43650 connector, Mod. 122-800
Max. current	1.5 A
Max. load	20 W DC - 30 VA AC
Actuating time	\leq 2 ms
Actuating tolerance	\pm 1mm
Operating temperature	- 25°C – + 75°C, (-13°F - 167° F)
Type of contact	NO (normally open)

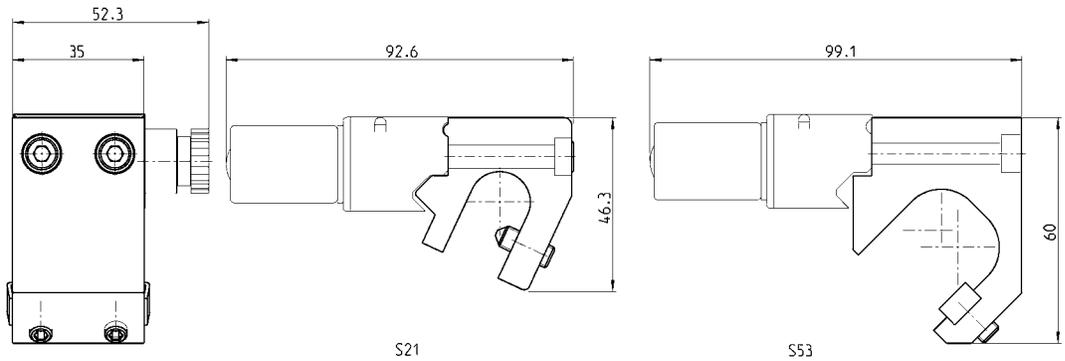
Switches Series CSN

For cylinders Series 40 from \varnothing 160 – 250 (mounting band Mod. S21 to be ordered separately).
 For cylinders Series 41 from \varnothing 160 - 200 (mounting band Mod. S53 to be ordered separately).
 For cylinders Series 60 from diam 32mm - 100mm bore, direct mounting on tie-rods.



Mod.
CSN 2032-0

Mounting bracket for sensor



Mod.

S21 for cylinders Series 40 \varnothing 160 - 200 and 250

S53 for cylinders Series 41 \varnothing 160 and 200

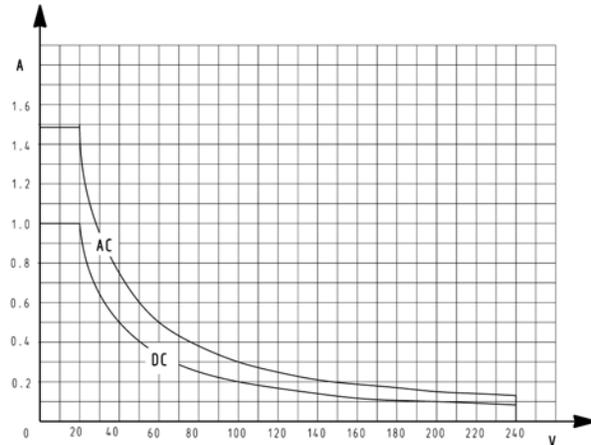
Maximum contact load

The maximum load (W) which the contacts are able to tolerate is that indicated in the section "General data", i.e.

- 20 W for direct current (DC)
- 30 VA for alternating current (AC)

The effective load allowed depends on the operating voltage (minimum 12 V, maximum 220 V) as shown in the following graph.

Note: this graph was obtained from practical tests performed using a load consisting of our Series A and 6 solenoid valves, at an operating speed of one stroke per second. For higher operating speeds, you are advised to contact our technical department.



TECHNICAL DATA

CONNECTION

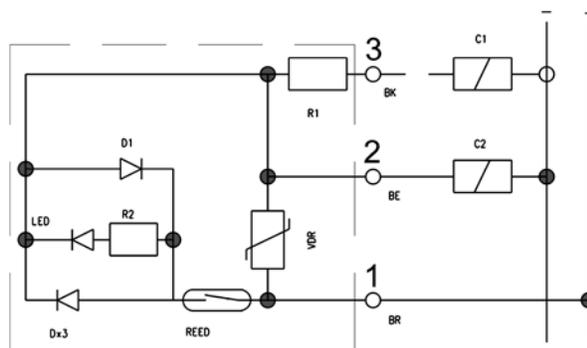
- For inductive loads = solenoid valves, electrical magnets, relay.
- To connectors = terminals 1 - 2
- For capacitive loads = circuit with remaining tension (see PLC controls)
- To connectors = 1 - 3

Note: For connections with wires of approximately 10m, the connection shall be made as for a capacitive load.

MAXIMUM LOADS

For maximum loads see relative diagram, those loads are valid only for inductive loads. For capacitive loads, using clamp 3 (or black wire) load must not exceed 80 mA and load must be given by PLC or, for electrical circuits, by microrelay or micro solenoid valves with 2W maximum consumption.

Note: When operating with direct current, clamp 1 must always be connected to the positive outlet (+). In cases where commands are given from the PLC and logic NPN, clamp 1 must be connected to the inlet. In cases where commands are given from the PLC and logic PNP, clamps 2 or 3 must be connected to the inlet.



LEGEND:

- C1 = capacitive load
- C2 = inductive load